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**BASIC IMAGERY
INTERPRETATION
REPORT**

DECLASS REVIEW by NIMA/DOD

**KRASNOYARSK METALLURGICAL PLANT AND
INSTITUTE OF NONFERROUS METALS**

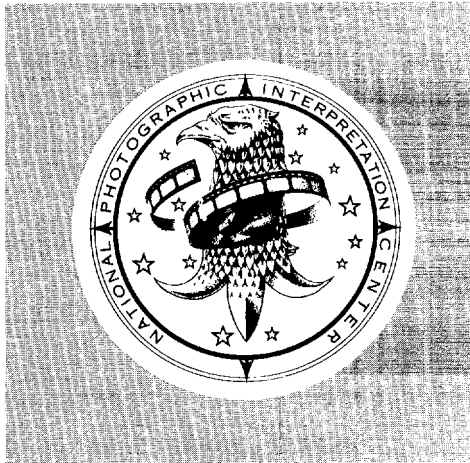


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**ATOMIC ENERGY FACILITIES
USSR**



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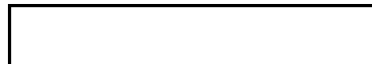
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**KRASNOYARSK METALLURGICAL PLANT AND
INSTITUTE OF NONFERROUS METALS**



ATOMIC ENERGY FACILITIES

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INSTALLATION OR ACTIVITY NAME

Krasnoyarsk Metallurgical Plant and Institute of Nonferrous Metals

COUNTRY

UR

UTM COORDINATES

NA

GEOGRAPHIC COORDINATES

55-58-31N 092-53-08E

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MAP REFERENCE

25X1 ACIC. USATC, Series 200, Sheet 0161-5, scale 1:200,000

NEGATION DATE (If required)

NA

ABSTRACT

1. The Krasnoyarsk Metallurgical Plant (Krasnoyarsk Khimiko Metallurgical Plant) and Institute of Nonferrous Metals (Krasnoyarsk Institute of Nonferrous Metals) are two adjacent, separately secured installations in the southeast part of the city of Krasnoyarsk, USSR. The relative positions of the installations and the reported nature of their activities indicate they may be associated, but no specific relationship or definitive information on specific activities can be derived from photography. Structures at the plant include five major production or processing buildings, shipping and receiving buildings, storage silos, and support buildings. Most of the buildings at the institute are laboratories and/or classrooms.

2. This report includes a description, a photograph, line drawings of the installations, and mensural and reference data.

INTRODUCTION

3. The Krasnoyarsk Metallurgical Plant and Institute of Nonferrous Metals are two separate installations in the industrialized southeastern part of the city of Krasnoyarsk, USSR (Figures 1 and 2). The city of Krasnoyarsk is situated on the Yenisey river. The metallurgical plant consists of approximately 60 structures, most of which are processing- or production-type buildings. The plant is road served from the Krasnoyarsk city street system, and a rail spur from the Zlobino railyards in Krasnovarsk enters the eastern part of the plant.

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4. The plant and institute are contiguous installations separated by a wall; however, one gate along the wall provides direct vehicle access between them, and one and possibly two other gates permit pedestrian access. The nature of the reported activities conducted at each installations,^{1,2} the juxtaposition of plant and institute; and direct access between them would all appear to indicate that they are closely associated; however, no positive evidence can be identified on photography that would confirm an integral relationship, nor does the photography provide definitive clues as to their specific activities or production.

BASIC DESCRIPTION

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Krasnoyarsk Metallurgical Plant

5. The Krasnoyarsk Metallurgical Plant and Institute of Nonferrous Metals are two adjacent, separately secured installations in the southeast part of the city of Krasnoyarsk, USSR. The relative positions of the installations and the reported nature of their activities indicate they may be associated, but no specific relationship or definitive information on specific activities can be derived from photography. Structures at the plant include five major production or processing buildings, shipping and receiving buildings, storage silos, and support buildings. Most of the buildings at the institute are laboratories and/or classrooms.

9. An overhead pipeline interconnects five buildings in the plant (items 38, 58, 73, 76, and 77) and most of the major processing buildings. The pipeline probably lacks expansion bends, but the poor interpretability of the photography prevents positive identification. The pipeline may carry a liquid used in the processing operations. Other overhead pipelines and steamlines were seen throughout the plant.

Support Facilities

10. Support buildings are situated in the western part of the plant. Four buildings (items 37, 50, 51, and 52) are road and rail served. A fifth support building, also road and rail served (item 47), has liquid-handling capabilities. The size and configuration of the building (item 78) west of the possible processing and byproducts recovery building (item 77) suggest a production role, such as fabrication or assembly of the final product; however, a support role cannot be discounted.

11. The onsite steamplant (item 6) furnishes heat and steam to the metallurgical plant. It also supplies steam to adjacent industrial facilities and probably to the Institute of Nonferrous Metals. The steamplant has four flues, indicating four boilers. These boilers are primarily coal fired, but two fuel oil tanks (item 8), completed in 1969, indicate that the plant can be either coal- or oil-fired. Water for the metallurgical plant and the steamplant is probably obtained from the city water supply of Krasnoyarsk; a probable pump house located within the plant (item 63) may serve as an auxiliary water supply. Electrical and other support services are supplied by facilities in Krasnoyarsk.

Institute of Nonferrous Metals

12. The Institute of Nonferrous Metals occupies 38 acres and consists of ten major buildings (Figure 2). Most of the buildings are laboratory or classroom structures (Figure 4 and Table 2). The institute is road served only. It is secured by a wall with guarded entrances.

13. The two largest laboratory or classroom buildings (items 7 and 8) are almost identical in size and configuration; both are L-shaped, well-ventilated, multistory structures. The other laboratory or classroom buildings (items 1, 2, 6, 10, 13, and 14) do not have an unusual configuration or ventilation system. Two laboratories (items 13 and 14) are separately secured, suggesting that sensitive research is performed in them.

14. There are also two administration-type buildings at the institute (items 9 and 12); item 9 probably also serves as a security and access control building. Four buildings (items 3, 5, 15, and 16) are the only large support buildings located at the institute. Water and electricity are supplied by facilities in the city of Krasnoyarsk.

15. The institute was complete by 1961. Lack of interpretable photographic coverage previous to 1961 prevents a determination of a construction chronology. A translation of a 1960 Soviet document describes the activities and facilities of the institute.² At that time, the institute employed over 50 members and ten graduate students who studied the metallurgy of pure metals and semiconductors. According to the description, the institute consisted of the following three parts: a metallurgical section, an analytical chemistry section, and a physical methods of investigation section. The three sections conducted research in aluminum, antimony, molybdenum, nickel, and the rare metals.

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Table 1. Data on Structures of Krasnoyarsk Metallurgical Plant
(Item numbers keyed to Figure 3)

Item	Description	Dimensions* meters feet			Item	Description	Dimensions* meters feet		
		L	W	H			L	W	H
25X1	Unid bldg				27	Vertical tanks (2)			
2	Cooling tower				28	Unid bldg			
3	Support bldg				29	Support bldg			
4	Support bldg				30	Support bldg			
5	Support bldg				31	Support bldgs (2)			
6	Steamplant a roof monitor				32	Unid bldg			
7	Stack				33	Unid bldg			
8	Vertical tanks (2)				34	Unid objects (6)			
9	Support bldg				35	Unid bldg			
10	Support bldg				36	Vehicle maint bldg			
11	Support bldg				37	Warehouse a b			
12	Maint bldg				38	Support bldg			
13	Pipeline control bldg				39	Fire station			
14	Maint bldg				40	Sintering/old steamplant a b vertical tanks (3) c stack			
15	Admin & control bldg a b c				41	Poss rail car thawing bldg a b			
16	Admin bldg a b				42	Shipping & receiving bldg a b c			
17	Unid bldg				43	Liquid receiving bldg			
18	Gatehouse a b				44	Vertical tanks (6)			
19	Vehicle maint bldg				45	Materials receiving bldg			
20	Support bldg				46	Receiving/processing bldg a b			
21	Vehicle maint bldg a b c				47	Liquid handling bldg			
22	Storage bldg a b				48	Horizontal tanks (2)			
23	Unid bldg (being razed) a b				49	Vertical tanks (3)			
24	Support bldg				50	Shipping, receiving, & storage bldg			
25	Support bldg				51	Storage bldg a b c d			
26	Support bldg								

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Table 1. (Continued)

Item	Description	Dimensions* meters feet			Item	Description	Dimensions* meters feet		
		L	W	H			L	W	H
52	Storage/support bldg				75	Support bldg			
53	Vehicle support bldg				76	Prob metallurgical processing bldg			
54	Storage bldg					a			
55	Storage bldg					b			
56	Storage/support bldg					c			
57	Admin bldg					d			
58	Processing bldg					e			
	a					f roof monitor			
	b					g vent			
	c					h vent			
	d roof monitor					i			
	e					j			
	f					k stack			
	g				77	Poss processing and by-products			
	h					recovery bldg			
	i vertical tanks (3)					a			
59	Support bldg					b monitor			
60	Storage bldg					c			
61	Storage bldg					d vertical tanks (4)			
62	Admin/tech personnel bldg					e vertical tanks (2)			
63	Prob pumphouse				78	Production/storage bldg			
64	Poss milling & distribution bldg					a			
	a					b			
	b					c			
65	Large silos (4)					d			
66	Small silos (4)					e			
67	Poss raw materials transfer bldg				79	Storage bldg			
68	Prob abandoned classroom				80	Support bldg			
69	Storage bldg				81	Admin bldg			
70	Prob abandoned classroom				82	Admin bldg			
71	Support bldg				83	Poss byproducts recovery bldg			
72	Storage silos (3)					a			
	a					b (4 silos are under part b)			
	b					c			
73	Metals preparation and processing					d			
	bldg				84	Support bldg			
	a preparation (east) portion				85	Support bldg			
	b processing (west) portion				86	Support bldg			
	c stack								
74	Excavation								

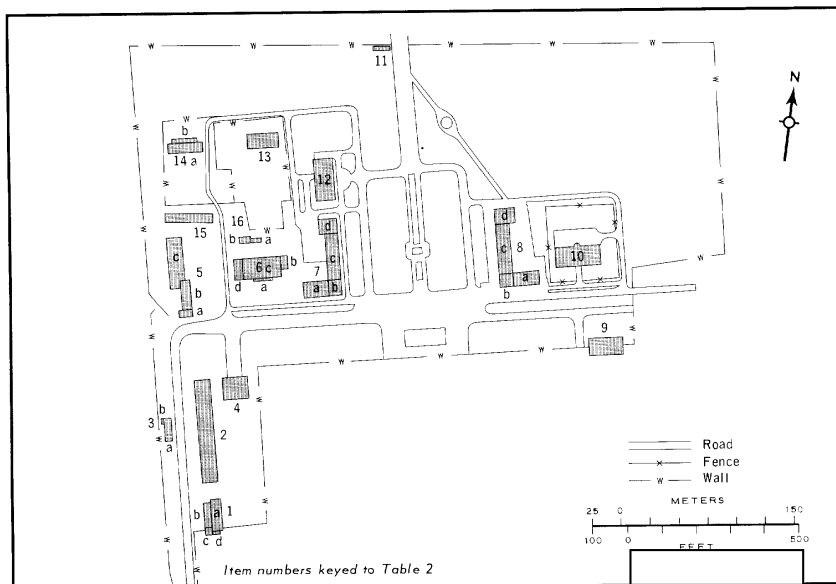
*Horizontal measurements are accurate to within [] with a 95% confidence level; vertical measurements, to within $\pm(1.0$ meter plus 1%) with a 95% confidence level.

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FIGURE 4. LAYOUT OF INSTITUTE

Table 2. Data on Structures at Krasnoyarsk Institute of Nonferrous Metals
(Item numbers keyed to Figure 4)

Item	Description/Function	Dimensions ^a meters feet		Item	Description/Function	Dimensions ^a meters feet	
		L	W			L	W
1	Lab/classroom a b c d			8	Lab/classroom a b c d		
2	Lab/classroom			9	Admin bldg		
3	Storage bldg a b			10	Lab/classroom		
4	Lab/classroom			11	Guardhouse		
5	Storage bldg a b c			12	Admin bldg		
6	Lab/classroom a b c d			13	Lab bldg		
7	Lab/classroom a b c d			14	Lab bldg a b		
				15	Storage bldg		
				16	Storage bldg a b		

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^aMeasurements are accurate to within [redacted] with a 95% confidence level.

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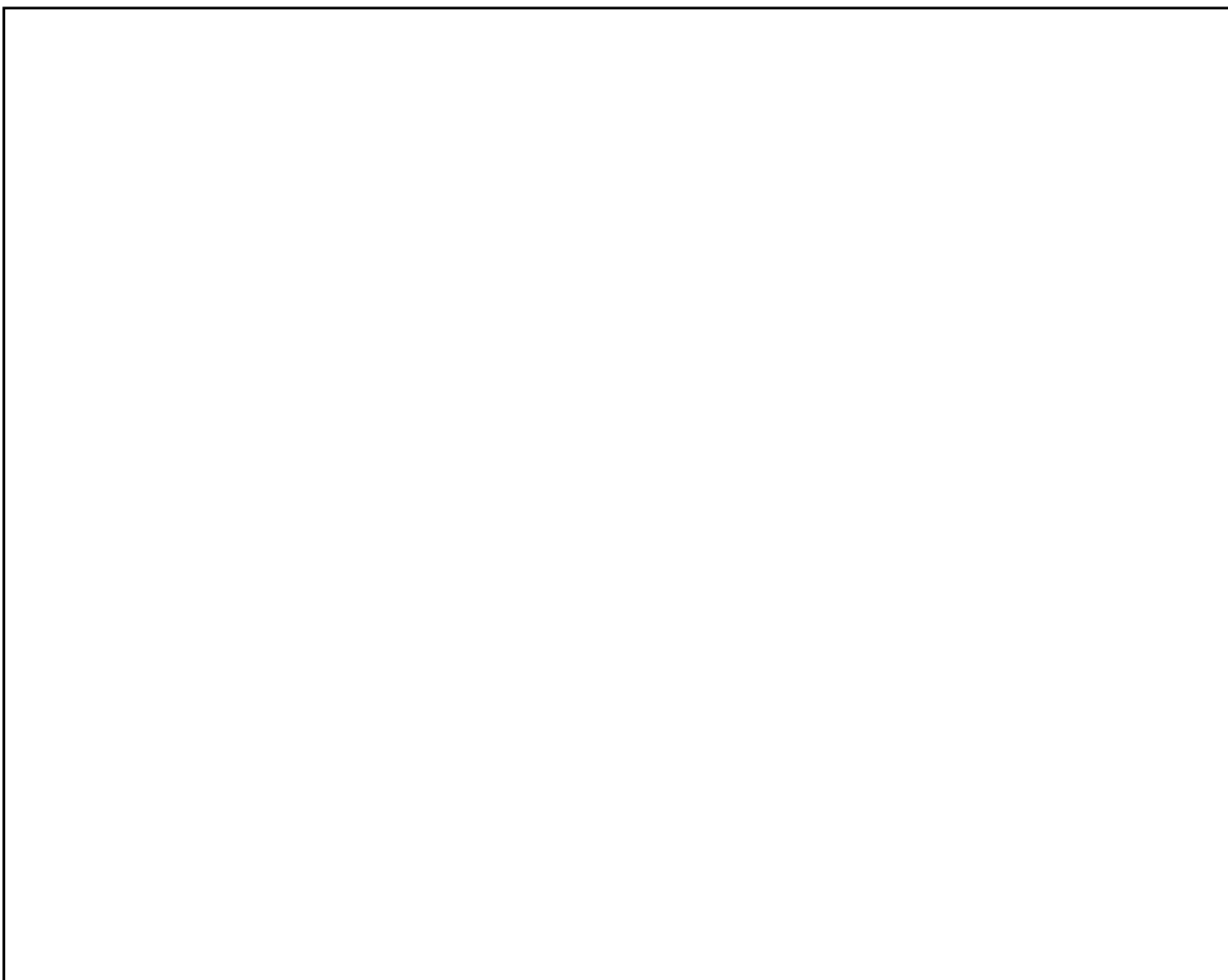
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REFERENCES



MAPS OR CHARTS

ACIC. US Air Target Chart, Series 200, Sheet 0161-5, scale 1:200,000

DOCUMENTS

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1. NSA. [REDACTED] *The Krasnoyarsk Chemical Metallurgical Plant, Post Box 298, A Producer of Materials for the Nuclear Energy Program: Available Information from 1953 to 1961*, 31 Dec 63 (TOP SECRET CODEWORD - [REDACTED])
2. US Dept of Commerce. JPRS: 2187-N, *Problem Laboratories Begin Scientific Production, USSR*, pp 11-20, 1960 (UNCLASSIFIED)

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REQUIREMENT

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COMIREX 008 & 015
NPIC/IEG/SD/NIB Project 221426

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